

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P159800

Luminaire Tested: **VST-E08-LED-E-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159800
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-T4
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23810.9 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

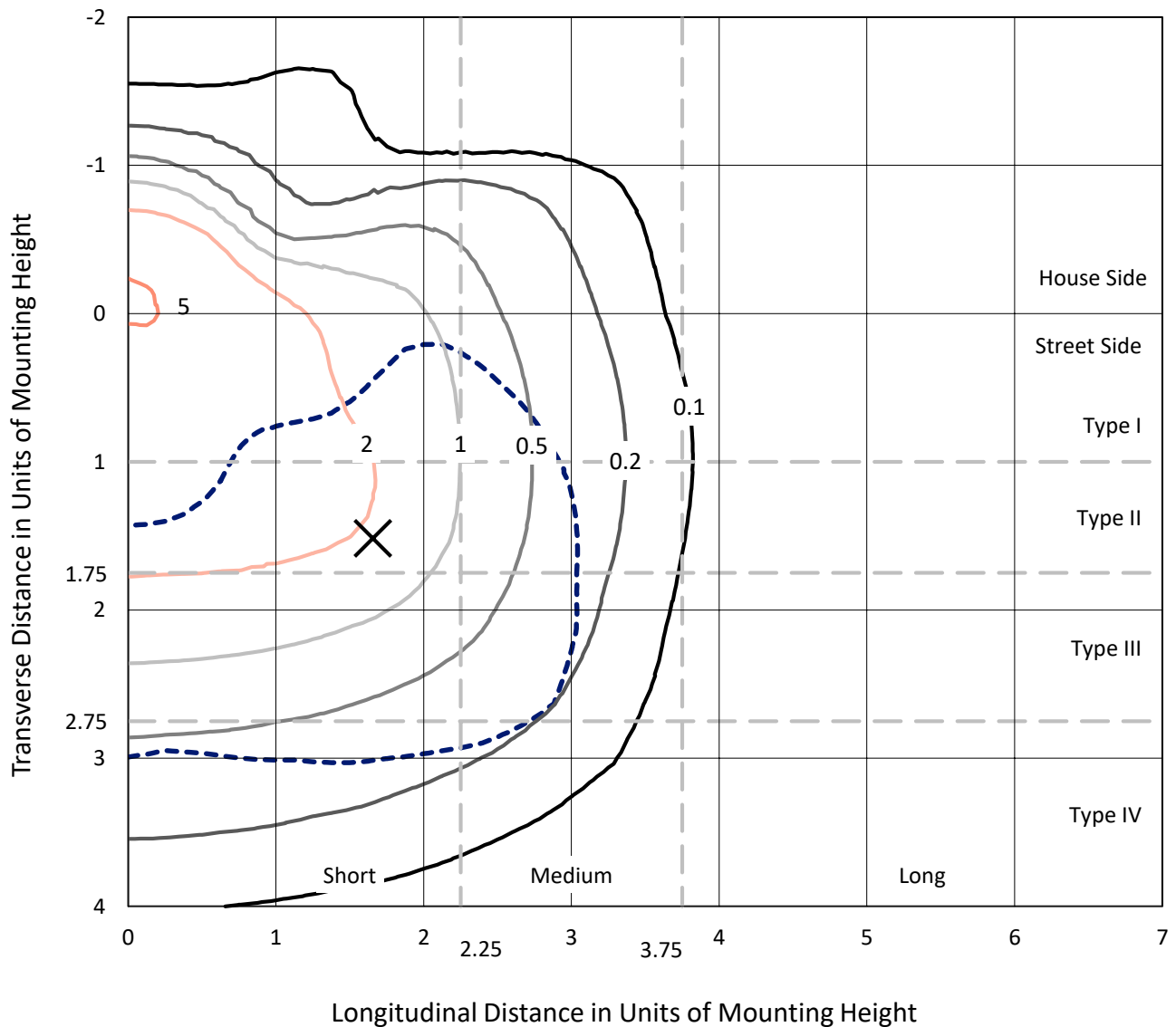
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

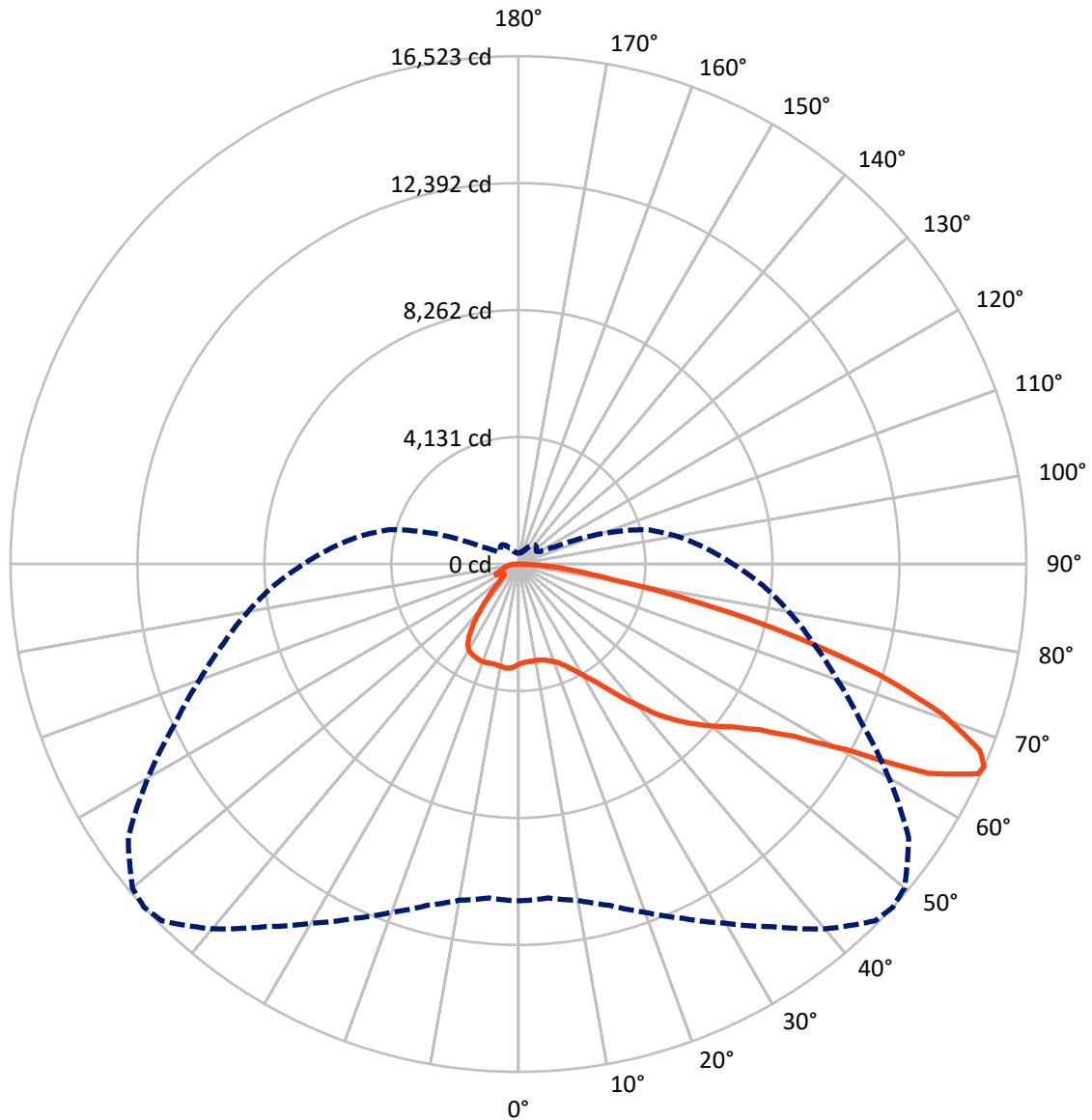
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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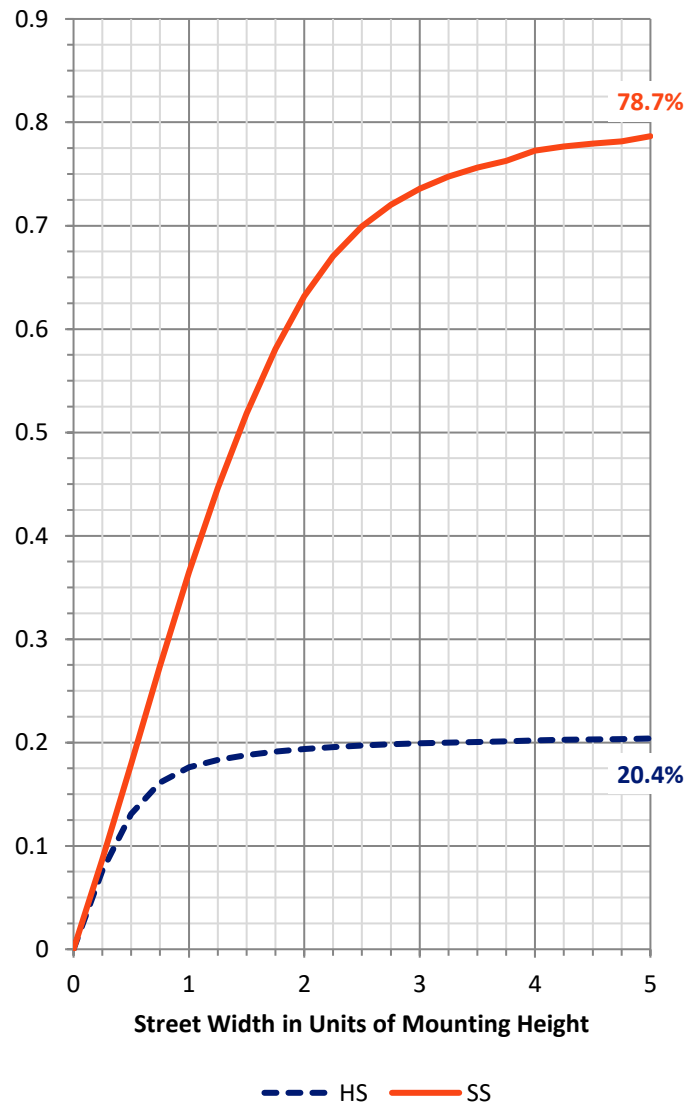
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4929.9 | 0.0 | 4929.9 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 18881.0 | 0.0 | 18881.0 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 23810.9 | 0.0 | 23810.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 314.0 | 1.3 |
| 10°-20° | 941.5 | 4.0 |
| 20°-30° | 1606.5 | 6.7 |
| 30°-40° | 2424.8 | 10.2 |
| 40°-50° | 3151.7 | 13.2 |
| 50°-60° | 4323.8 | 18.2 |
| 60°-70° | 6651.4 | 27.9 |
| 70°-80° | 3844.9 | 16.1 |
| 80°-90° | 552.3 | 2.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 23810.9 | 100.0 |
| 0°-180° | 23810.9 | 100.0 |

Coefficient of Utilization



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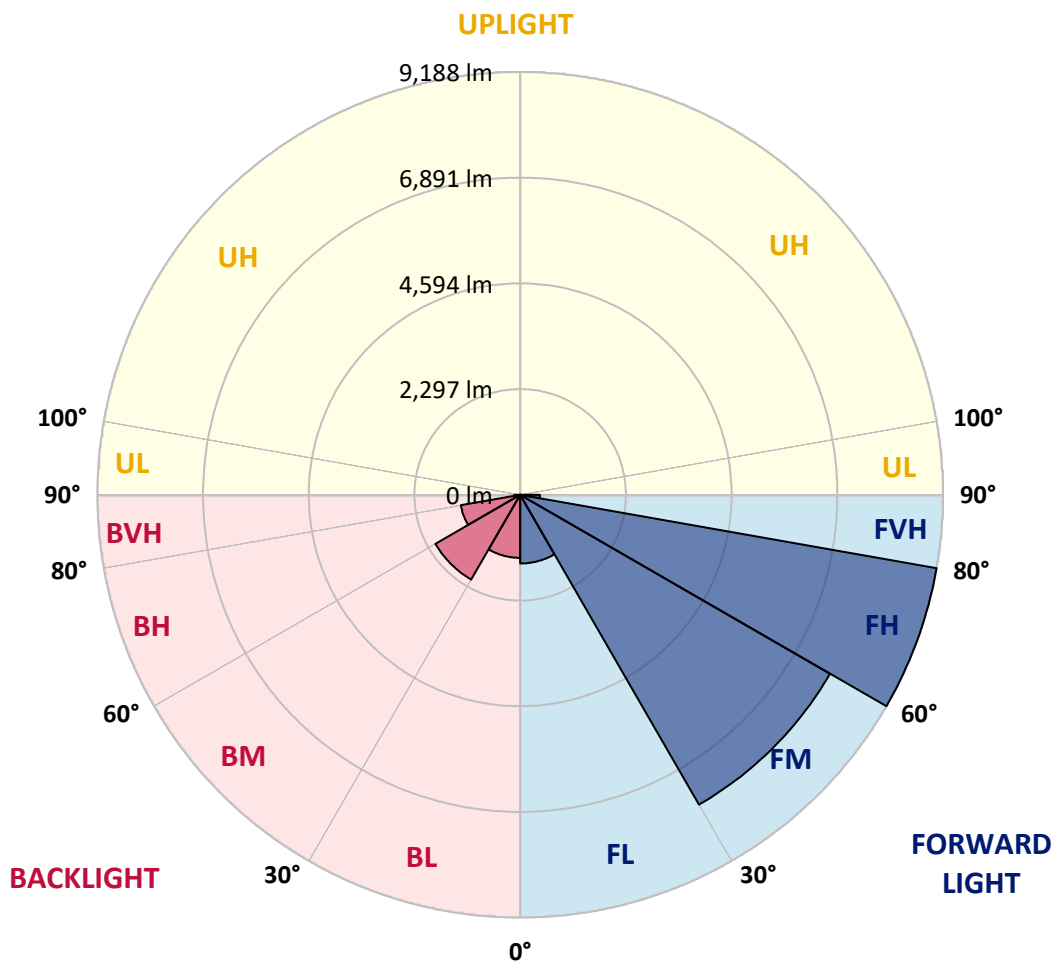
CATALOG NUMBER: VST-E08-LED-E-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1492.5 | 6.3 | | | |
| FM | (30°-60°) | 7773.2 | 32.6 | | | |
| FH | (60°-80°) | 9187.8 | 38.6 | | | G4/12000 |
| FVH | (80°-90°) | 427.4 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1369.6 | 5.8 | B3/2500 | | |
| BM | (30°-60°) | 2127.0 | 8.9 | B2/2500 | | |
| BH | (60°-80°) | 1308.4 | 5.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 124.9 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CATALOG NUMBER: VST-E08-LED-E-U-T4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 |
| 2.5° | 3174.4 | 3176.0 | 3177.6 | 3177.6 | 3182.4 | 3182.4 | 3190.4 | 3195.2 | 3196.8 | 3206.4 | 3212.8 |
| 5° | 3115.2 | 3113.6 | 3115.2 | 3118.4 | 3126.4 | 3132.8 | 3148.8 | 3160.0 | 3169.6 | 3185.6 | 3193.6 |
| 7.5° | 3089.6 | 3092.8 | 3096.0 | 3097.6 | 3104.0 | 3120.0 | 3134.4 | 3145.6 | 3164.8 | 3184.0 | 3192.0 |
| 10° | 3123.2 | 3128.0 | 3123.2 | 3126.4 | 3126.4 | 3140.8 | 3147.2 | 3155.2 | 3169.6 | 3187.2 | 3192.0 |
| 12.5° | 3201.6 | 3211.2 | 3201.6 | 3193.6 | 3187.2 | 3200.0 | 3196.8 | 3190.4 | 3198.4 | 3203.2 | 3203.2 |
| 15° | 3331.2 | 3331.2 | 3324.8 | 3313.6 | 3297.6 | 3299.2 | 3284.8 | 3270.4 | 3264.0 | 3252.8 | 3244.8 |
| 17.5° | 3457.6 | 3454.4 | 3440.0 | 3425.6 | 3414.4 | 3409.6 | 3388.8 | 3369.6 | 3347.2 | 3329.6 | 3310.4 |
| 20° | 3580.8 | 3593.6 | 3576.0 | 3555.2 | 3537.6 | 3526.4 | 3510.4 | 3472.0 | 3444.8 | 3416.0 | 3396.8 |
| 22.5° | 3793.6 | 3782.4 | 3763.2 | 3732.8 | 3715.2 | 3696.0 | 3662.4 | 3620.8 | 3579.2 | 3544.0 | 3520.0 |
| 25° | 4012.8 | 4001.6 | 3974.4 | 3952.0 | 3926.4 | 3910.4 | 3873.6 | 3822.4 | 3782.4 | 3728.0 | 3696.0 |
| 27.5° | 4248.0 | 4238.4 | 4206.4 | 4188.8 | 4171.2 | 4152.0 | 4120.0 | 4067.2 | 4030.4 | 3968.0 | 3934.4 |
| 30° | 4513.6 | 4512.0 | 4468.8 | 4465.6 | 4440.0 | 4419.2 | 4396.8 | 4352.0 | 4315.2 | 4252.8 | 4212.8 |
| 32.5° | 4796.8 | 4790.4 | 4760.0 | 4750.4 | 4768.0 | 4753.6 | 4721.6 | 4675.2 | 4627.2 | 4590.4 | 4545.6 |
| 35° | 5200.0 | 5188.8 | 5171.2 | 5179.2 | 5190.4 | 5230.4 | 5180.8 | 5140.8 | 5083.2 | 5035.2 | 4972.8 |
| 37.5° | 5494.4 | 5478.4 | 5499.2 | 5544.0 | 5608.0 | 5638.4 | 5681.6 | 5683.2 | 5656.0 | 5592.0 | 5537.6 |
| 40° | 5764.8 | 5758.4 | 5806.4 | 5868.8 | 5987.2 | 6073.6 | 6155.2 | 6195.2 | 6204.8 | 6163.2 | 6081.6 |
| 42.5° | 5993.6 | 6012.8 | 6076.8 | 6172.8 | 6339.2 | 6470.4 | 6622.4 | 6716.8 | 6776.0 | 6753.6 | 6716.8 |
| 45° | 6265.6 | 6275.2 | 6353.6 | 6475.2 | 6633.6 | 6851.2 | 7051.2 | 7211.2 | 7315.2 | 7313.6 | 7272.0 |
| 47.5° | 6606.4 | 6608.0 | 6675.2 | 6817.6 | 6987.2 | 7208.0 | 7460.8 | 7673.6 | 7811.2 | 7817.6 | 7785.6 |
| 50° | 7011.2 | 7008.0 | 7081.6 | 7216.0 | 7396.8 | 7609.6 | 7878.4 | 8144.0 | 8336.0 | 8336.0 | 8289.6 |
| 52.5° | 7532.8 | 7526.4 | 7566.4 | 7684.8 | 7859.2 | 8083.2 | 8350.4 | 8657.6 | 8865.6 | 8910.4 | 8809.6 |
| 55° | 8228.8 | 8238.4 | 8248.0 | 8352.0 | 8500.8 | 8678.4 | 8985.6 | 9268.8 | 9547.2 | 9572.8 | 9513.6 |
| 57.5° | 9033.6 | 9001.6 | 9070.4 | 9240.0 | 9409.6 | 9632.0 | 9849.6 | 10184.0 | 10513.6 | 10569.6 | 10561.6 |
| 60° | 10291.2 | 10249.6 | 10320.0 | 10536.0 | 10723.2 | 11073.6 | 11446.4 | 11878.4 | 12268.8 | 12384.0 | 12244.8 |
| 62.5° | 11448.0 | 11499.2 | 11595.2 | 11846.4 | 12118.4 | 12585.6 | 13145.6 | 13886.4 | 14627.2 | 15030.4 | 15001.6 |
| 65° | 11344.0 | 11296.0 | 11480.0 | 11822.4 | 12315.2 | 12910.4 | 13606.4 | 14499.2 | 15566.4 | 16376.0 | 16448.0 |
| 66° | 10958.4 | 10908.8 | 11107.2 | 11499.2 | 12062.4 | 12724.8 | 13497.6 | 14406.4 | 15497.6 | 16412.8 | 16523.2 |
| 67.5° | 10321.6 | 10272.0 | 10496.0 | 10852.8 | 11433.6 | 12267.2 | 13102.4 | 14096.0 | 15230.4 | 16107.2 | 16196.8 |
| 70° | 9092.8 | 9025.6 | 9200.0 | 9603.2 | 10073.6 | 10880.0 | 11675.2 | 12728.0 | 13892.8 | 14593.6 | 14627.2 |
| 72.5° | 7702.4 | 7545.6 | 7731.2 | 8041.6 | 8377.6 | 9044.8 | 9737.6 | 10457.6 | 11385.6 | 12033.6 | 12219.2 |
| 75° | 5588.8 | 5670.4 | 5724.8 | 5929.6 | 6152.0 | 6704.0 | 7110.4 | 7713.6 | 8432.0 | 8900.8 | 9049.6 |
| 77.5° | 2964.8 | 3088.0 | 3164.8 | 3369.6 | 3737.6 | 4158.4 | 4598.4 | 4971.2 | 5443.2 | 5705.6 | 5888.0 |
| 80° | 1664.0 | 1750.4 | 1875.2 | 2036.8 | 2216.0 | 2539.2 | 2800.0 | 2992.0 | 3059.2 | 3105.6 | 3147.2 |
| 82.5° | 915.2 | 1134.4 | 1320.0 | 1432.0 | 1537.6 | 1667.2 | 1822.4 | 1982.4 | 2033.6 | 1956.8 | 1916.8 |
| 85° | 142.4 | 209.6 | 638.4 | 779.2 | 848.0 | 947.2 | 1059.2 | 1177.6 | 1179.2 | 1014.4 | 1107.2 |
| 87.5° | 40.0 | 44.8 | 91.2 | 137.6 | 134.4 | 108.8 | 134.4 | 244.8 | 144.0 | 72.0 | 83.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VST-E08-LED-E-U-T4

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 |
| 2.5° | 3216.0 | 3219.2 | 3227.2 | 3235.2 | 3243.2 | 3251.2 | 3256.0 | 3264.0 | 3270.4 | 3280.0 | 3291.2 |
| 5° | 3203.2 | 3211.2 | 3225.6 | 3243.2 | 3259.2 | 3273.6 | 3284.8 | 3300.8 | 3315.2 | 3328.0 | 3347.2 |
| 7.5° | 3203.2 | 3219.2 | 3243.2 | 3262.4 | 3276.8 | 3294.4 | 3312.0 | 3328.0 | 3344.0 | 3356.8 | 3369.6 |
| 10° | 3204.8 | 3220.8 | 3244.8 | 3267.2 | 3283.2 | 3302.4 | 3316.8 | 3331.2 | 3348.8 | 3356.8 | 3372.8 |
| 12.5° | 3211.2 | 3217.6 | 3235.2 | 3257.6 | 3276.8 | 3296.0 | 3310.4 | 3324.8 | 3344.0 | 3347.2 | 3358.4 |
| 15° | 3243.2 | 3233.6 | 3238.4 | 3254.4 | 3275.2 | 3291.2 | 3307.2 | 3318.4 | 3331.2 | 3328.0 | 3337.6 |
| 17.5° | 3302.4 | 3278.4 | 3268.8 | 3270.4 | 3280.0 | 3291.2 | 3297.6 | 3299.2 | 3300.8 | 3286.4 | 3288.0 |
| 20° | 3382.4 | 3348.8 | 3326.4 | 3315.2 | 3302.4 | 3291.2 | 3273.6 | 3252.8 | 3233.6 | 3204.8 | 3201.6 |
| 22.5° | 3502.4 | 3452.8 | 3428.8 | 3398.4 | 3360.0 | 3312.0 | 3268.8 | 3217.6 | 3176.0 | 3132.8 | 3116.8 |
| 25° | 3676.8 | 3625.6 | 3600.0 | 3552.0 | 3483.2 | 3414.4 | 3352.0 | 3283.2 | 3222.4 | 3171.2 | 3147.2 |
| 27.5° | 3910.4 | 3859.2 | 3832.0 | 3782.4 | 3697.6 | 3628.8 | 3542.4 | 3468.8 | 3395.2 | 3320.0 | 3289.6 |
| 30° | 4193.6 | 4148.8 | 4118.4 | 4078.4 | 4004.8 | 3929.6 | 3828.8 | 3715.2 | 3598.4 | 3478.4 | 3419.2 |
| 32.5° | 4528.0 | 4478.4 | 4456.0 | 4409.6 | 4332.8 | 4254.4 | 4142.4 | 3996.8 | 3801.6 | 3612.8 | 3494.4 |
| 35° | 4945.6 | 4889.6 | 4864.0 | 4803.2 | 4713.6 | 4598.4 | 4478.4 | 4283.2 | 4019.2 | 3756.8 | 3563.2 |
| 37.5° | 5504.0 | 5379.2 | 5294.4 | 5155.2 | 5011.2 | 4849.6 | 4678.4 | 4478.4 | 4166.4 | 3841.6 | 3572.8 |
| 40° | 5998.4 | 5872.0 | 5708.8 | 5508.8 | 5284.8 | 5062.4 | 4867.2 | 4640.0 | 4300.8 | 3902.4 | 3542.4 |
| 42.5° | 6612.8 | 6388.8 | 6128.0 | 5857.6 | 5560.0 | 5286.4 | 5054.4 | 4787.2 | 4392.0 | 3918.4 | 3457.6 |
| 45° | 7174.4 | 6907.2 | 6558.4 | 6198.4 | 5828.8 | 5484.8 | 5224.0 | 4926.4 | 4470.4 | 3918.4 | 3355.2 |
| 47.5° | 7686.4 | 7366.4 | 6948.8 | 6500.8 | 6070.4 | 5694.4 | 5398.4 | 5068.8 | 4580.8 | 3968.0 | 3324.8 |
| 50° | 8160.0 | 7792.0 | 7316.8 | 6796.8 | 6313.6 | 5912.0 | 5593.6 | 5251.2 | 4748.8 | 4096.0 | 3398.4 |
| 52.5° | 8659.2 | 8268.8 | 7689.6 | 7137.6 | 6604.8 | 6174.4 | 5835.2 | 5476.8 | 4966.4 | 4297.6 | 3528.0 |
| 55° | 9313.6 | 8856.0 | 8198.4 | 7590.4 | 7004.8 | 6529.6 | 6144.0 | 5747.2 | 5204.8 | 4524.8 | 3686.4 |
| 57.5° | 10345.6 | 9681.6 | 9024.0 | 8233.6 | 7681.6 | 7056.0 | 6633.6 | 6177.6 | 5592.0 | 4820.8 | 3924.8 |
| 60° | 12152.0 | 11336.0 | 10545.6 | 9636.8 | 8955.2 | 8300.8 | 7662.4 | 7067.2 | 6361.6 | 5489.6 | 4448.0 |
| 62.5° | 14731.2 | 13902.4 | 12660.8 | 11548.8 | 10520.0 | 9652.8 | 8820.8 | 8064.0 | 7158.4 | 6204.8 | 5092.8 |
| 65° | 16272.0 | 15323.2 | 13843.2 | 12348.8 | 11099.2 | 10024.0 | 9072.0 | 8145.6 | 7168.0 | 6238.4 | 5288.0 |
| 66° | 16395.2 | 15497.6 | 13916.8 | 12337.6 | 11040.0 | 9924.8 | 8934.4 | 7976.0 | 6974.4 | 6084.8 | 5224.0 |
| 67.5° | 16166.4 | 15393.6 | 13766.4 | 12120.0 | 10793.6 | 9588.8 | 8571.2 | 7566.4 | 6560.0 | 5736.0 | 5011.2 |
| 70° | 14552.0 | 13993.6 | 12598.4 | 11056.0 | 9732.8 | 8670.4 | 7596.8 | 6630.4 | 5676.8 | 4984.0 | 4446.4 |
| 72.5° | 11929.6 | 11222.4 | 10246.4 | 9209.6 | 8168.0 | 7225.6 | 6249.6 | 5427.2 | 4627.2 | 4123.2 | 3742.4 |
| 75° | 8763.2 | 8126.4 | 7051.2 | 6404.8 | 5716.8 | 5124.8 | 4467.2 | 3688.0 | 3120.0 | 2867.2 | 2774.4 |
| 77.5° | 5555.2 | 4864.0 | 3956.8 | 3243.2 | 2788.8 | 2396.8 | 1889.6 | 1502.4 | 1203.2 | 1252.8 | 1387.2 |
| 80° | 2806.4 | 2417.6 | 1809.6 | 1428.8 | 1235.2 | 1027.2 | 812.8 | 616.0 | 449.6 | 513.6 | 580.8 |
| 82.5° | 1801.6 | 1504.0 | 1198.4 | 944.0 | 796.8 | 702.4 | 561.6 | 408.0 | 304.0 | 342.4 | 419.2 |
| 85° | 1084.8 | 916.8 | 731.2 | 598.4 | 520.0 | 433.6 | 318.4 | 225.6 | 224.0 | 240.0 | 296.0 |
| 87.5° | 164.8 | 235.2 | 136.0 | 145.6 | 153.6 | 164.8 | 145.6 | 123.2 | 107.2 | 139.2 | 176.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VST-E08-LED-E-U-T4

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 |
| 2.5° | 3302.4 | 3305.6 | 3312.0 | 3320.0 | 3318.4 | 3329.6 | 3336.0 | 3329.6 | 3344.0 | 3344.0 | 3352.0 |
| 5° | 3363.2 | 3368.0 | 3379.2 | 3387.2 | 3390.4 | 3400.0 | 3403.2 | 3401.6 | 3404.8 | 3406.4 | 3409.6 |
| 7.5° | 3380.8 | 3393.6 | 3398.4 | 3403.2 | 3404.8 | 3408.0 | 3408.0 | 3404.8 | 3404.8 | 3403.2 | 3406.4 |
| 10° | 3376.0 | 3380.8 | 3384.0 | 3382.4 | 3382.4 | 3379.2 | 3377.6 | 3376.0 | 3376.0 | 3372.8 | 3377.6 |
| 12.5° | 3360.0 | 3360.0 | 3360.0 | 3356.8 | 3356.8 | 3355.2 | 3355.2 | 3355.2 | 3358.4 | 3360.0 | 3368.0 |
| 15° | 3328.0 | 3328.0 | 3331.2 | 3329.6 | 3334.4 | 3342.4 | 3352.0 | 3358.4 | 3366.4 | 3368.0 | 3372.8 |
| 17.5° | 3278.4 | 3280.0 | 3289.6 | 3310.4 | 3331.2 | 3355.2 | 3372.8 | 3377.6 | 3371.2 | 3355.2 | 3344.0 |
| 20° | 3192.0 | 3212.8 | 3251.2 | 3300.8 | 3347.2 | 3377.6 | 3385.6 | 3366.4 | 3336.0 | 3294.4 | 3272.0 |
| 22.5° | 3115.2 | 3156.8 | 3225.6 | 3307.2 | 3364.8 | 3385.6 | 3361.6 | 3316.8 | 3262.4 | 3214.4 | 3180.8 |
| 25° | 3145.6 | 3193.6 | 3265.6 | 3336.0 | 3372.8 | 3361.6 | 3313.6 | 3249.6 | 3192.0 | 3136.0 | 3081.6 |
| 27.5° | 3273.6 | 3321.6 | 3372.8 | 3393.6 | 3380.8 | 3339.2 | 3272.0 | 3203.2 | 3126.4 | 3046.4 | 2979.2 |
| 30° | 3395.2 | 3422.4 | 3425.6 | 3404.8 | 3358.4 | 3291.2 | 3212.8 | 3132.8 | 3035.2 | 2939.2 | 2854.4 |
| 32.5° | 3433.6 | 3401.6 | 3344.0 | 3284.8 | 3220.8 | 3152.0 | 3060.8 | 2955.2 | 2851.2 | 2742.4 | 2648.0 |
| 35° | 3422.4 | 3292.8 | 3150.4 | 3024.0 | 2947.2 | 2868.8 | 2785.6 | 2644.8 | 2528.0 | 2435.2 | 2374.4 |
| 37.5° | 3321.6 | 3084.8 | 2865.6 | 2681.6 | 2561.6 | 2468.8 | 2345.6 | 2228.8 | 2128.0 | 2086.4 | 2036.8 |
| 40° | 3180.8 | 2819.2 | 2515.2 | 2257.6 | 2132.8 | 2014.4 | 1876.8 | 1787.2 | 1758.4 | 1720.0 | 1721.6 |
| 42.5° | 2979.2 | 2508.8 | 2116.8 | 1820.8 | 1684.8 | 1555.2 | 1457.6 | 1404.8 | 1406.4 | 1374.4 | 1380.8 |
| 45° | 2766.4 | 2196.8 | 1704.0 | 1409.6 | 1275.2 | 1164.8 | 1110.4 | 1094.4 | 1096.0 | 1097.6 | 1088.0 |
| 47.5° | 2636.8 | 1953.6 | 1366.4 | 1068.8 | 950.4 | 888.0 | 859.2 | 851.2 | 852.8 | 854.4 | 843.2 |
| 50° | 2617.6 | 1827.2 | 1140.8 | 817.6 | 740.8 | 705.6 | 691.2 | 683.2 | 683.2 | 676.8 | 667.2 |
| 52.5° | 2672.0 | 1795.2 | 1030.4 | 708.8 | 635.2 | 603.2 | 592.0 | 585.6 | 576.0 | 563.2 | 545.6 |
| 55° | 2758.4 | 1824.0 | 996.8 | 672.0 | 600.0 | 568.0 | 553.6 | 550.4 | 534.4 | 510.4 | 481.6 |
| 57.5° | 2918.4 | 1928.0 | 1019.2 | 681.6 | 606.4 | 577.6 | 568.0 | 564.8 | 542.4 | 505.6 | 468.8 |
| 60° | 3377.6 | 2230.4 | 1131.2 | 736.0 | 652.8 | 628.8 | 628.8 | 624.0 | 593.6 | 540.8 | 488.0 |
| 62.5° | 4011.2 | 2673.6 | 1283.2 | 811.2 | 716.8 | 713.6 | 740.8 | 742.4 | 688.0 | 603.2 | 520.0 |
| 65° | 4316.8 | 2881.6 | 1336.0 | 827.2 | 734.4 | 771.2 | 825.6 | 825.6 | 748.8 | 632.0 | 524.8 |
| 66° | 4318.4 | 2876.8 | 1320.0 | 808.0 | 715.2 | 763.2 | 819.2 | 819.2 | 739.2 | 624.0 | 516.8 |
| 67.5° | 4208.0 | 2787.2 | 1267.2 | 772.8 | 672.0 | 716.8 | 766.4 | 764.8 | 692.8 | 592.0 | 494.4 |
| 70° | 3774.4 | 2465.6 | 1116.8 | 715.2 | 620.8 | 622.4 | 640.0 | 628.8 | 580.8 | 512.0 | 449.6 |
| 72.5° | 3254.4 | 2062.4 | 968.0 | 678.4 | 580.8 | 550.4 | 536.0 | 526.4 | 496.0 | 454.4 | 416.0 |
| 75° | 2496.0 | 1601.6 | 843.2 | 644.8 | 545.6 | 492.8 | 473.6 | 465.6 | 444.8 | 420.8 | 390.4 |
| 77.5° | 1529.6 | 1097.6 | 715.2 | 590.4 | 505.6 | 457.6 | 436.8 | 420.8 | 400.0 | 377.6 | 356.8 |
| 80° | 659.2 | 662.4 | 572.8 | 500.8 | 440.0 | 384.0 | 356.8 | 337.6 | 326.4 | 318.4 | 307.2 |
| 82.5° | 460.8 | 475.2 | 436.8 | 388.8 | 336.0 | 296.0 | 272.0 | 267.2 | 268.8 | 268.8 | 265.6 |
| 85° | 345.6 | 339.2 | 305.6 | 278.4 | 254.4 | 228.8 | 209.6 | 208.0 | 214.4 | 214.4 | 209.6 |
| 87.5° | 200.0 | 201.6 | 172.8 | 161.6 | 168.0 | 144.0 | 131.2 | 132.8 | 148.8 | 147.2 | 144.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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